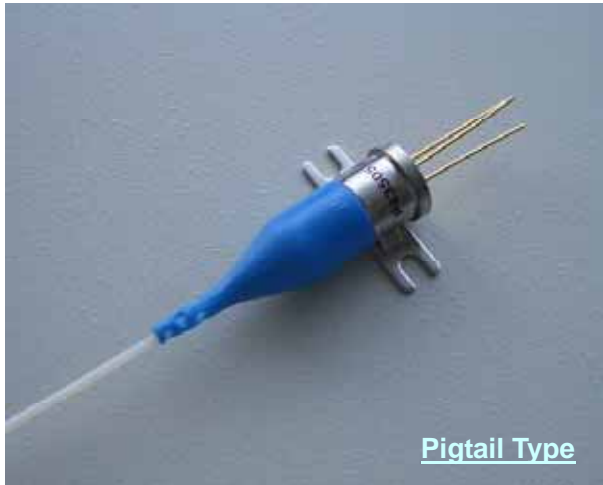


# Analog PIN Photodiode Module



## Applications

CATV return-path  
 Broadcasting system for FTTH

## Features

Frequency range > 1GHz  
 Low distortion  
 High responsivity  
 Low dark current  
 Low back reflection  
 High reliability design (YAG welding)  
 Proven reliability (Telcordia GR-468-CORE Passed)

## Descriptions

The APDM series of PIN photodiode module is designed for fiber-optic analog receivers in CATV systems and other analog transmission systems. The module provides low inter-modulation distortions, frequency range of >1GHz and high responsivity. The module is housed in a hermetically sealed small coaxial package.

## Absolute Maximum Ratings

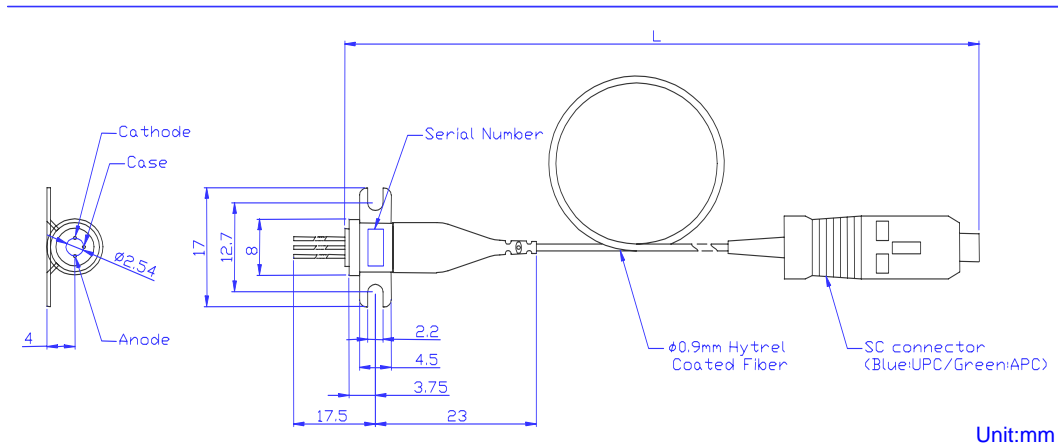
Parameter	Sym	Min	Max	Unit	Conditions
Storage Temperature	Tstg	-40	85	°C	-
Operating Case Temperature	Top	-10	70	°C	-
Soldering Temperature	Ts	-	260	°C	Max.10sec
Optical Input Power	Pin	-	5	dBm	-
Reverse Voltage	Vr	4.5	20	V	-

## Optical Characteristics (Top=25°C, Vr=5V)

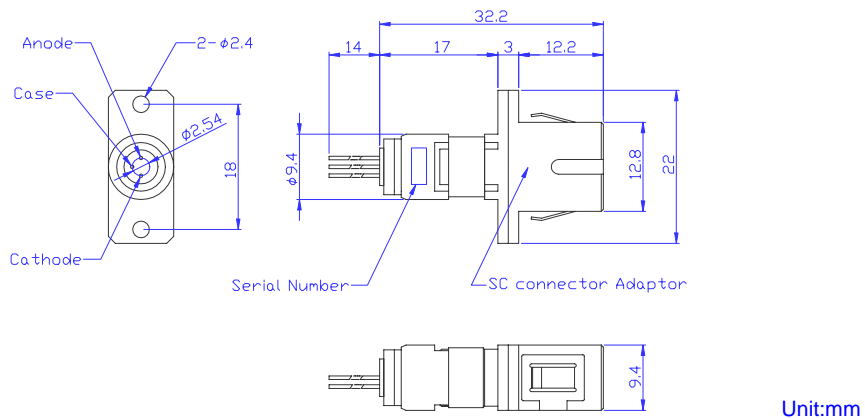
Parameter	Sym	Min	Typ	Max	Unit	Conditions
Wavelength	WL	1100	-	1650	nm	-
Responsivity	R	0.75	0.85	-	A/W	WL=1310nm,include connector loss
		0.81	0.95	-	A/W	WL=1550nm,include connector loss
2nd Order Distortion	IMD2	-	-70	-60	dBc	0dBm,MI=70%,12V, 2 tone(244&250MHz)
3rd Order Distortion	IMD3	-	-80	-70	dBc	
Dark Current	ID	-	-	1.0	nA	-
Capacitance	Ct	-	0.80	0.95	pF	without case grounded
Cut-off Frequency	fc(-3dB)	1	-	-	GHz	-3dB point,50Ωload
Optical Return Loss	RL	40	47	-	dB	-

## Dimensions and Pin Assignments

### - Pigtail Type -



### - Receptacle Type -



## Ordering Information

### - Pigtail Type -

ODET-APDM□-HF□□□-□□/□□□

Fiber Type	
Nothing	SMF (ITU-T G.652)
2	MMF (ITU-T G.651)

Pigtail Length : L	
038	0.37 ~ 0.40m
100	0.90 ~ 1.10m

Connector Type	
SC/UPC	SC/UPC connector
SC/APC	SC/APC connector
N/N	non connector

### - Receptacle Type -

ODET-APDM2-RFPD-UPC

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